

PATENT ABSTRACTS OF JAPAN

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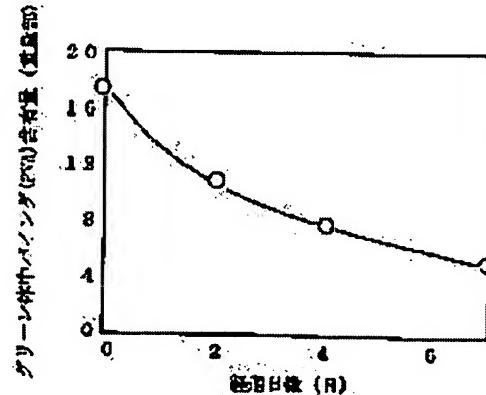
(22) Date of filing : 01.07.1996 (72) Inventor : NAKAMURA MASATO

(54) PRODUCTION OF CERAMIC

(57) Abstract:

PROBLEM TO BE SOLVED: To shorten the time required for scattering an org. binder and to shorten firing time by degrading and removing the binder used for compacting with a microorganism or enzyme extracted from the microorganism when powdery starting material is compacted and fired to produce a ceramic sintered compact.

SOLUTION: A slurry consisting of ceramic powder, a binder, a solvent and other auxiliaries is mixed with a microorganism reacting remarkably with the binder and degrading it or binder degrading enzyme extracted from the microorganism. The resultant mixture is dried and a formed green sheet is compacted to obtain a green compact. In other way, the slurry is dried and the surface of a formed green compact is coated with the microorganism or enzyme. The binder in the green compact is then biodegraded at room temp. and the compact is fired. The amt. of PVA as a binder in a green compact coated with degrading enzyme extracted from a PVA degrading bacterium varies with the lapse of time as shown by the diagram.



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